

Name:	Dr. Joanna Joiner
Present Position:	Atmospheric Scientist Global Model and Assimilation Office (Code 900.2) NASA Goddard Space Flight Center, Greenbelt, MD
Research Area Experience:	Remote sensing and assimilation of atmospheric and surface parameters from microwave, infrared, and ultraviolet passive radiometers including radiative transfer modeling, retrieval algorithm development, data analysis, laboratory spectroscopic measurements, and radio astronomy.
Education:	1987 B. E. E. (Electrical Engineering) Georgia Institute of Technology <i>Summa cum laude</i> 1988 M. S. Electrical Engineering Georgia Institute of Technology 1991 Ph. D. Electrical Engineering Georgia Institute of Technology Dissertation: " <i>Millimeter-wave Spectra of the Jovian Atmospheres.</i> "
Previous Positions:	1991-1993 Visiting Scientist, Universities Space Research Association 1993-1994 Sr. Research Scientist, General Sciences Corporation 1994-1995 Sr. Research Scientist, Hughes STX Corporation
Professional Society Memberships:	American Geophysical Union (AGU) American Meteorological Society (AMS) Institute of Electrical and Electronics Engineers (IEEE) former member American Astronomical Society (AAS) former member Division of Planetary Science - AAS former member
Awards & Honors:	Satellite Data Utilization Office Outstanding Performance Award, 1992 Goddard Space Flight Center Performance Award, 1995, 1997, 1998, 2003 Laboratory for Atmospheres, Scientific Achievement Award, 1998 Goddard Space Flight Center Special Act Award, 1998, 1999, 2001 Goddard Space Flight Center Group Achievement Award, 2003 NASA Group Achievement Award, Aqua Mission Team, 2003

Special Experience: Member of the Infrared Atmospheric Sounding Interferometer (IASI) Science Steering Working Group (ISSWG), 1996-present
Member of the scientific committee for the Satellite Remote Sensing of Clouds and the Atmosphere II conference, part of the European Symposium of Remote Sensing, 1998
Member of the organizing committee of the NOAA/NASA/ONR Satellite Data Assimilation Workshops, 1998 & 1999
Principal Investigator (PI) for several NASA-funded research proposals
Associate Editor, Quarterly Journal of the Royal Meteorological Society, 2000-2003 Member of the Ozone Monitoring Instrument (OMI) science team (PI of U. S. OMI cloud algorithm team) 2000-present

Refereed Publications:

Joiner, J., Steffes, P. G., and J. M. Jenkins (1989). Laboratory Measurements of the 7.5-9.38 mm Absorption of Gaseous Ammonia (NH_3) under Simulated Jovian Conditions. *Icarus*, **81**, 386-395.

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- Joiner J., and P. K. Bhartia (1995). Determination of Cloud Pressures from Rotational-Raman Scattering in Satellite Backscatter Ultraviolet Measurements. *J. Geophys. Res.*, **100**, 23019-23026.
- Joiner J., and A. C. Aikin (1996). Temporal and Spatial Variations in Upper Atmospheric Mg⁺, *J. Geophys. Res.*, **101**, 5239-5249.
- Joiner J., and P. K. Bhartia (1997). Accurate Determination of Total Ozone using SBUV Continuous Spectral Scan Measurements. *J. Geophys. Res.*, **102**, 12957-12969.
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- Joiner J., and A. M. da Silva (1998). Efficient methods to Assimilate Satellite Retrievals Based on Information Content. *Quart. J. Roy. Meteor. Soc.*, **124**, 1669-1694.
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